From: Philip Mudd
To: Ron Allard - WPMABE (ronald.allard@gsa.gov); Terry Lamb Sr.; "tony.lopacki@gsa.gov"; Joshua Hill
Subject: Comprehensive Lighting Audit
Date: Thursday, June 16, 2016 4:14:10 PM
Attachments: comprehensive lighting audit.docx

Ron

Per my earlier e-mail, I did not mention that FERC has budgeted for this Comprehensive Lighting Audit for FY17, **$00.224 per square foot.** I figured the effected area roughly 320,000 square feet has approximately 6790 fixtures, it would take about a month to the leg work, the counting and measuring

Do you have anyone that can help us tighten up this SOW? We have no direction or wording in for the engineering study at the end.

We also need a proper (IGCE), In estimate below I had nothing to base the work on except what the Union Electric Service company general charges, I guessed two guys would have to go around with a ladder to do the 5% sample measurements, my up-front engineering report estimate line item might be low, I do not have numbers for the engineering at the end. I did the best I could do but could use some assistance

Phil

Labor – $66.50 per hour (+) 713 hours = $47,414.50
Material and truck charges = $1560.80
Engineering Calculations and Report = $6520.00
Job Total Cost = $55495.30
Overhead = + 10% = $61,044.83
Profit = +10% = $6104.48
Sub Total = $67,149.31
Contingency 7% = $4700.45
Total= $71,849.76
$00.224 per square foot

From: Philip Mudd
Sent: Thursday, June 16, 2016 12:03 PM
To: Ron Allard - WPMABE (ronald.allard@gsa.gov) <ronald.allard@gsa.gov>; Terry Lamb Sr. <terry.lamb@ferc.gov>; 'tony.lopacki@gsa.gov' <tony.lopacki@gsa.gov>; Joshua Hill <joshua.hill@ferc.gov>
Subject: sample lighting study

Ron

After our teleconference Josh and I discussed the methodology. Our concern, we only have one shot

at an up-front comprehensive lighting audit, the data loggers sounds goo in conjunction with an audit. The sample Lighting study reflects counting fixtures and measuring.
Can we get some help with this statement of work (Comprehensive lighting audit)? It is missing the directions for the final analysis of comparing the old lighting plant to the new lighting plant. I have not had a second set of eyes look at this and add to it, edit it, etc. attached is GSA findings GPG-024 August 2015 the project at the Ralph H. Metcalfe Federal Building in Chicago and the Peachtree Summit Federal Buildings.

Can you help?

Phil

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GPG-024, AUGUST 2015

LED Fixtures with integrated advanced lighting controls dynamically determine light levels using onboard occupancy and daylight sensors. New plug-and-play fixtures installed at the Ralph H. Metcalfe Federal Building in Chicago and the Peachtree Summit Federal Building in Atlanta maintained lighting quality, achieved lighting energy savings of 69% over the GSA average, and yielded a 40% return on investment. *Click on the infographic below to enlarge.*